Journal of Molecular Structure, 271 (1992) 333
Elsevier Science Publishers B.V., Amsterdam

AUTHOR INDEX

Andjelković, K., 209
Ando, I., 57, 75

Baran, E.J., 327
Baulin, V.E., 311
Bayo, K., 19
Benlian, D., 19
Bera, S.Ch., 45
Bezouhanova, C.P., 37
Bonnet, J.-P., 95
Booij, A.S., 183
Brzezinski, B., 157

Chimichi, S., 133

Denisov, G.S., 9
Dryjański, P., 1
Duddeck, H., 301

Edwards, H.G.M., 27
Enjalbert, R., 95
Esteban, A.L., 227

Farwell, D.W., 27
Fernández Gómez, M., 237
Fukushima, K., 279

Galache, M.P., 227
Galliot, C., 95
Galy, J., 95
Glebov, A.S., 311
Gluziński, P., 191
Grech, E., 109, 197
Grochowski, E., 191, 301

Healy, A., 149

Ishikawa, S., 57

Jaud, J., 289
Juranić, I., 209
Juranić, N., 209

Kalvachev, Yu.A., 37
Kanters, J.A., 109, 197
Kemme, A., 191
Konings, R.J.M., 183
Krajewski, J.W., 191
Kuzina, L.A., 9

Labarre, J.-F., 95, 289
Lechert, H., 37
LeMaster, C.B., 261
LeMaster, C.L., 261
Lewis, I.R., 27
López González, J.J., 237

Manna, B.K., 45
Martínez-Torres, E., 237
Mealli, C., 133
Mikhailenko, S.N., 119
Mishnyov, A., 191
Moore, E.A., 149
Mora, F., 227
Mortimer, M., 149

Niketić, S.R., 209
Nishiyama, T., 279

Olejnik, J., 157
Ouedraogo, G.V., 19

Peirson, N.F., 149
Pupek, K., 191

Rajamanickam, N., 237
Raves, M.L., 109
Raynaud, B., 289
Ruiz, E., 227
Rys, B., 301

Saba, A., 19
Salas, O., 197
Scheidecker, S., 95, 289
Sen, D., 45
Serda, P., 301
Shen, Z.X., 175
Sherman, W.F., 175
Solov'ev, V.P., 311
Starikov, V.I., 119
Stefanova, R., 251
Stefanovsky, Y., 251
Suarez, C., 89
Szneler, E., 301

Tafazzoli, M., 89
Takayama, T., 75
Terzian, G., 19
True, N.S., 89
Tsvetkov, E.N., 311
Turner, K.A., 261
Ten Elshof, J.E., 311

Unno, Y., 279

Varnek, A.A., 311
Viteva, L., 251

Webb, N., 27

Zundel, G., 157

Journal of Molecular Structure, 271 (1992) 335–338
Elsevier Science Publishers B.V., Amsterdam

SUBJECT INDEX

$AgNO_3$,
Structural transformation studies of $AgNO_3$ by Raman and infrared spectroscopy, 175
Alcohol reactivity,
IR characteristics of alcohol reactivity of HZSM-5 zeolites, 37
Aliphatic amines,
Structure of electrolyte solutions in aliphatic amines. Part V. Infrared study of nitrates in ethylenediamine, 1
Alkyl substituents,
A description of the effects of silyl vs. alkyl substituents in ketones in the light of oxygen-17 NMR data and with the help of qualitative MO theory, 133
Aminocarboxylato chelates,
General relationship between ring structural and pseudorotational parameters of five-membered rings. Application to aminocarboxylato chelates in cobalt(III) complexes, 209
ANSA,
An answer to the SPIRO versus ANSA dilemma in cyclophosphazenes. Part XVI. Synthesis and crystal structure of the first SPIRO species from dithiadiamines, 95
An answer to the SPIRO versus ANSA dilemma in cyclophosphazenes. Part XVII. Synthesis and crystal structure of the (S,S) SPIRO species from 3,10-dithiadodecane-1,12-diamine, 289

Bacteriorhodopsin,
A proton pathway with large proton polarizability and the proton pumping mechanism in bacteriorhodopsin — Fourier transform difference spectra of photoproducts of bacteriorhodopsin and of its pentademethyl analogue, 157
Benzoannulated nine-membered rings,
Conformational analysis of benzoannulated nine-membered rings. Part 2. X-ray analysis and force-field calculations of 1,4,5,7-tetrahydro-3*H*-2,6-benzodithionin and its derivatives, 301
Butyric acids,
NMR study of the conformational distribution in methyl esters and *N,N*-dimethylamides of diastereoisomeric 4-cyano-3,4-diphenyl- and 4-cyano-3-phenyl-4-(1-naphthyl)-butyric acids. Relation to the configurations, 251
(5R*,6S*)-1-Benzoyl-5-methylthio-6-methoxy-1-azapenam,
Synthesis and X-ray structural investigation of (5R*,6S*)-1-benzoyl-5-methylthio-6-methoxy-1-azapenam, 191

Cobalt(III) complexes,
General relationship between ring structural and pseudorotational parameters of five-membered rings. Application to aminocarboxylato chelates in cobalt(III) complexes, 209
Conformation,
Conformation and dynamics of a polysiloxane containing rigid groups in the solid state as studied by variable-temperature high-resolution ^{29}Si NMR, 75
Spectra and conformation of α-naphthil, 45
Conformational exchange,
Gas- and liquid-phase NMR studies of conformational exchange in *N,N*-diisopropylacetamide, 261
CP/MAS,
Structural studies of dimyristoylphosphatidylcholine and distearoylphosphatidylcholine in the crystalline and liquid-crystalline states by vari-

able-temperature solid-state high-resolution ^{13}C NMR spectroscopy, 57
Crown ethers,
Raman spectroscopic study of cation capture of crown ethers having intramolecular strain, 279
Cyclohexene,
Gas-phase NMR spectra of cyclohexene are consistent with a barrier to ring inversion of less than 30 kJ mol^{-1}, 89
Cyclophosphazenes,
An answer to the SPIRO versus ANSA dilemma in cyclophosphazenes. Part XVI. Synthesis and crystal structure of the first SPIRO species from dithiadiamines, 95
An answer to the SPIRO versus ANSA dilemma in cyclophosphazenes. Part XVII. Synthesis and crystal structure of the (S,S) SPIRO species from 3,10-dithiadodecane-1,12-diamine, 289

Diammine diisocyanatozinc(II),
Vibrational spectra of diammine diisocyanatozinc(II) $Zn(NCO)_2(NH_3)_2$ and dipyridyl diisocyanatozinc(II) $Zn(NCO)_2(C_5H_5N)_2$, 27
N,N-Diisopropylacetamide,
Gas- and liquid-phase NMR studies of conformational exchange in *N,N*-diisopropylacetamide, 261
N,N-Dimethylamides,
NMR study of the conformational distribution in methyl esters and *N,N*-dimethylamides of diastereoisomeric 4-cyano-3,4-diphenyl- and 4-cyano-3-phenyl-4-(1-naphthyl)-butyric acids. Relation to the configurations, 251
Dimethylaminomethyl-1-dimethylammoniomethylnaphthalene nitrate,
Disorder in the intramolecular $[N–H\cdots N]^+$ hydrogen bond. The redetermination of the crystal and molecular structure at liquid nitrogen temperature of 8-dimethylaminomethyl-1-dimethylammoniomethyl naphthalene nitrate, 197
Dimyristoylphosphatidylcholine,
Structural studies of dimyristoylphosphatidylcholine and distearoyl-phosphatidylcholine in the crystalline and liquid-crystalline states by variable-temperature solid-state high-resolution ^{13}C NMR spectroscopy, 57
Dipole-moment operator,
Effective dipole-moment operator for non-rigid H_2X-type molecules. Application to H_2O, 119
Dipyridyl diisocyanatozinc(II),
Vibrational spectra of diammine diisocyanatozinc(II) $Zn(NCO)_2(NH_3)_2$ and dipyridyl diisocyanatozinc(II) $Zn(NCO)_2(C_5H_5N)_2$, 27
Distearoylphosphatidylcholine,
Structural studies of dimyristoylphosphatidylcholine and distearoylphosphatidylcholine in the crystalline and liquid-crystalline states by variable-temperature solid-state high-resolution ^{13}C NMR spectroscopy, 57
Dithiadiamines,
An answer to the SPIRO versus ANSA dilemma in cyclophosphazenes. Part XVI. Synthesis and crystal structure of the first SPIRO species from dithiadiamines, 95
3,10-Dithiadodecane-1,12-diamine,
An answer to the SPIRO versus ANSA dilemma in cyclophosphazenes. Part XVII. Synthesis and crystal structure of the (S,S) SPIRO species from 3,10-dithiadodecane-1,12-diamine, 289
DMAN,
Complexes of the "proton sponge" 1,8-bis(dimethylamino)naphthalene (DMAN). Part 5. The structure at 100 K of $[DMANH]^+ \cdot$ [dihydrogen hemimellitate]$^-$ hemihydrate, 109
Dynamics,
Conformation and dynamics of a polysiloxane containing rigid groups in the solid state as studied by variable-temperature high-resolution ^{29}Si NMR, 75

Electrolyte solutions,
Structure of electrolyte solutions in aliphatic amines. Part V. Infrared study of nitrates in ethylenediamine, 1

Ethylenediamine,
Structure of electrolyte solutions in aliphatic amines. Part V. Infrared study of nitrates in ethylenediamine, 1

Four-membered rings,
Methylene group deformational coordinates in four-membered rings, 227

H_2O,
Effective dipole-moment operator for non-rigid H_2X-type molecules. Application to H_2O, 119
Hydrogen bond,
A comparison of ab initio, NMR and diffraction results for a strong OHF hydrogen bond, 149
Disorder in the intramolecular $[N–H\cdots N]^+$ hydrogen bond. The redetermination of the crystal and molecular structure at liquid nitrogen temperature of 8-dimethylaminomethyl-1-dimethylammoniomethylnaphthalene nitrate, 197
The weakening of the intramolecular hydrogen bond $NH\cdots O$ in complexes of ortho-substituted anilines with proton acceptors, 9
HZSM-5 zeolites
IR characteristics of alcohol reactivity of HZSM-5 zeolites, 37

Internal valence force constants,
Calculation of internal valence force constants for $XY_4(T_d)$ tetrahedral molecules, 237
Intramolecular strain,
Raman spectroscopic study of cation capture of crown ethers having intramolecular strain, 279
Iron(II) phthalocyanine,
Derives substitués de la ferrophthalocyanine, 19

Ketones,
A description of the effects of silyl vs. alkyl substituents in ketones in the light of oxygen-17 NMR data and with the help of qualitative MO theory, 133

Methyl esters,
NMR study of the conformational distribution in methyl esters and *N,N*-dimethylamides of diastereoisomeric 4-cyano-3,4-diphenyl- and 4-cyano-3-phenyl-4-(1-naphthyl)-butyric acids. Relation to the configurations, 251
Methylene group,
Methylene group deformational coordinates in four-membered rings, 227

α-Naphthil,
Spectra and conformation of α-naphthil, 45
Nitrates,
Structure of electrolyte solutions in aliphatic amines. Part V. Infrared study of nitrates in ethylenediamine, 1

Organophosphorus podands,
Complexation of lithium and sodium cations with β-phosphorylate ethers, modelling terminal groups of organophosphorus podands. An experimental and theoretical study, 311
Ortho-substituted anilines,
The weakening of the intramolecular hydrogen bond $NH\cdots O$ in complexes of ortho-substituted anilines with proton acceptors, 9

Pentademethyl,
A proton pathway with large proton polarizability and the proton pumping mechanism in bacteriorhodopsin — Fourier transform difference spectra of photoproducts of bacteriorhodopsin and of its pentademethyl analogue, 157
β-Phosphorylate ethers,
Complexation of lithium and sodium cations with β-phosphorylate ethers, modelling terminal groups of organophosphorus podands. An experimental and theoretical study, 311
Polysiloxane,
Conformation and dynamics of a polysiloxane containing rigid groups in the solid state as studied by variable-temperature high-resolution ^{29}Si NMR, 75

Proton acceptors,
The weakening of the intramolecular hydrogen bond NH···O in complexes of ortho-substituted anilines with proton acceptors, 9
Proton sponge,
Complexes of the "proton sponge" 1,8-bis(dimethylamino)naphthalene (DMAN). Part 5. The structure at 100 K of $[DMANH]^{+\cdot}$ [dihydrogen hemimellitate]$^-$ hemihydrate, 109

Ring inversion,
Gas-phase NMR spectra of cyclohexene are consistent with a barrier to ring inversion of less than 30 kJ mol^{-1}, 89

Silyl substituents,
A description of the effects of silyl vs. alkyl substitutents in ketones in the light of oxygen-17 NMR data and with the help of qualitative MO theory, 133
SPIRO,
An answer to the SPIRO versus ANSA dilemma in cyclophosphazenes. Part XVI. Synthesis and crystal structure of the first SPIRO species from dithiadiamines, 95
An answer to the SPIRO versus ANSA dilemma in cyclophosphazenes. Part XVII. Synthesis and crystal structure of the (S,S) SPIRO species from the 3,10-dithiadodecane-1,12-diamine, 289

Tetrahydro-3*H*-2,6-benzodithionin,
Conformational analysis of benzoannulated nine-membered rings. Part 2. X-ray analysis and force-field calculations of 1,4,5,7-tetrahydro-3*H*-2,6-benzodithionin and its derivatives, 301
Tetrahedral molecules,
Calculation of internal valence force constants for $XY_4(T_d)$ tetrahedral molecules, 237
Thermodynamic functions,
High-temperature infrared spectroscopy of YCl_3: the vibration spectrum, molecular structure and thermodynamic functions, 183

XeF_5^-,
Mean amplitudes of vibration of the novel XeF_5^- anion, 327

YCl_3,
High-temperature infrared spectroscopy of YCl_3: the vibration spectrum, molecular structure and thermodynamic functions, 183